

EDUCATION

Ph.D. in Computer Science

University of Colorado Boulder–Boulder, CO, USA
Advisor: Dr. Alaa Ahmed

August 2017–Present

GPA 4.00/4.00

M.S., Electrical Engineering

University of Colorado Boulder–Boulder, CO, USA

May 2017

GPA: 3.87/4.00

Thesis: Analysis And Solution Of Markov Decision Problems With A Continuous, Stochastic State Component. *Advisor:* Dr. Michael Mozer

B.E., Electronics and Communication Engineering

College of Engineering, Guindy, Anna Univeristy - Chennai, India

May 2014

GPA: 8.57/10.00

PROFESSIONAL EXPERIENCE

Data Modelling Engineering Intern

Answeron Inc.–Longmont, CO, USA

June 2015–June 2017

As the sole data modeller in operations team, I built and improved machine learning models to predict churn behaviour among subscribers and employees of clients. I was also tasked with migrating all the codebase from Matlab to Python.

PRESENTATIONS

See full list of projects on ssukumar.github.io/presentations

Effort expenditure links the control of vigor with decision making

Shruthi Sukumar, Reza Shadmehr, Alaa A. Ahmed

Motor Learning and Motor Control symposium, Virtual Meeting

November 2020

Should I stay or should I go? Vigor of arm reaching movements during foraging

Shruthi Sukumar, Reza Shadmehr, Alaa A. Ahmed

Annual meeting of Rocky Mountain chapter of ASB, Estes Park, USA

April 2019

Effect of travel effort on movement vigor during foraging

Shruthi Sukumar, Reza Shadmehr, Alaa A. Ahmed

Annual meeting of Society of Neuroscience (SfN), Chicago, USA

October 2019

PUBLICATIONS

- [1] **S. Sukumar**, C. Elliot-Williams, S. Hakimi, A. F. Ward, and M. C. Mozer, “Overcoming Temptations: Incentive Design for Intertemporal Choice”, in *In Preparation*, 2021.
- [2] **S. Sukumar**, R. Shadmehr, and A. A. Ahmed, “Effect of reward and effort on the opportunity cost of time and movement vigor”, in *In Preparation*, 2021.

SCHOLARSHIPS AND AWARDS

Domestic Travel Grant Graduate School, University of Colorado Boulder	October 2019 <i>Amount:</i> \$300
CS Departmental Fellowship Department of Computer Science, University of Colorado Boulder	2017–2018 <i>Amount:</i> \$5000
Early Career Professional Development Fellowship (ECPDF) Department of Computer Science, University of Colorado Boulder	August 217 <i>Amount:</i> \$1200
RLDM Student Travel Fellowship Reinforcement Learning and Decision Making conference committee	June 2017 <i>Amount:</i> \$250

SKILLS

- **Programming:** Python, R, Matlab, C
- **Experiment Design:** Tcl/Tk, Simulink, Stateflow, Psiturk
- **Other:** Git, Latex

TEACHING AND MENTORING

- **Teaching Assistant** at University of Colorado Boulder
Undergraduate Machine Learning(CSCI 4622) Spring 2020
- **Mentor** at Discovery Learning Apprenticeship
: Determine how isometric grip force rate is modulated by reward Fall 2020–Spring 2021

RELEVANT COURSEWORK

- Machine Learning
- Design and Analysis of Algorithms
- Dynamic Programming
- Deep Learning
- Probabilistic Modelling of AI
- Algorithmic Human-Robot Interaction
- Chaotic Dynamics (nonlinear dynamical systems)
- High Dimensional Dataset Analysis